

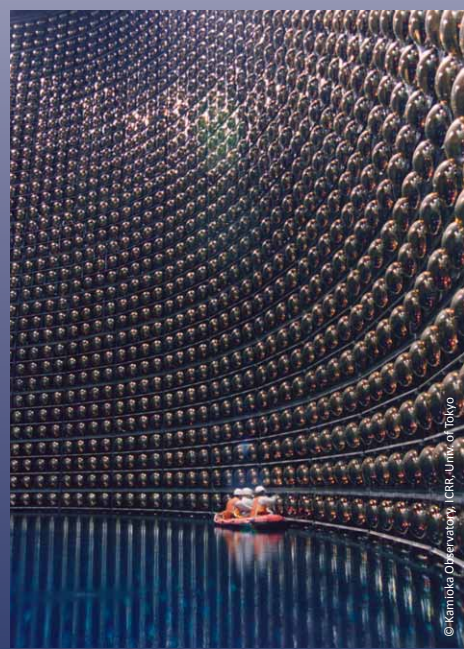
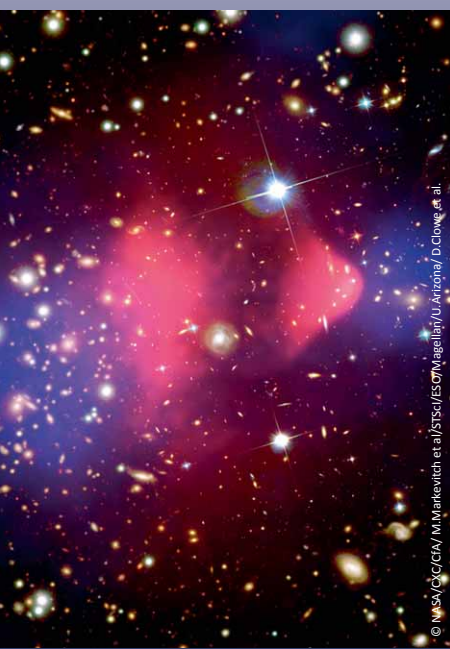
2011 MUNICH TAUP

12th International Conference on
Topics in Astroparticle and Underground Physics

5 – 9 September 2011
Munich (Germany)
Münchner Künstlerhaus



Conference website
<http://taup2011.mpp.mpg.de>



TOPICS

- Cosmology and particle physics
- Dark matter and its detection
- Neutrino physics and astrophysics
- Gravitational waves
- High-energy astrophysics and cosmic rays

The biennial TAUP series covers experimental and theoretical developments in astroparticle physics by invited plenary review talks and workshop parallel sessions of invited and contributed presentations.

Cosmology and dark matter MONDAY

CMB and Planck, F. Bouchet (IAP Paris)
Precision cosmology as a particle physics laboratory, Y. Wong (RWTH Aachen)
Alternatives to WIMPs and alternative uses of WIMP detectors, M. Pospelov (University of Victoria and Perimeter Institute)
Status of indirect detection, P. Serpico (LAPTh Annecy)
Antimatter in space, B. Bertucci (University/INFN Perugia)
Status of deep underground laboratories, N. Smith (SNOLAB)

Direct dark matter searches TUESDAY

Direct WIMP searches and theoretical scenarios, C. Muñoz (UAM/CSIC Madrid)
Status of XENON100, R. Lang (Purdue University)
Dark matter search with CDMS and SuperCDMS, W. Rau (Queen's University)
Latest results from the CRESST dark matter search, F. Petricca (MPP Munich)
CoGENT and COUPP, J. Collar (University of Chicago)
EDELWEISS status report, E. Armengaud (IRFU/SPP)
DAMA/LIBRA results and perspectives, A. Incicchitti (INFN Rome)

Neutrinos – Inner properties and particle-physics aspects WEDNESDAY

Direct neutrino mass determination: Status and prospects, V. Hannen (Münster University)
Double beta decay, B. Schwingenheuer (MPIK Heidelberg)
Long baseline experiments, T. Nakadaira (IPNS/KEK)
Short baseline: Status and prospects, B. Fleming (Yale)
Neutrino oscillations with reactor neutrinos, M. Lindner (MPIK Heidelberg)
Neutrinos: Phenomenology and interpretation, E. Lisi (INFN Bari)

Astrophysical messengers THURSDAY

Novel results on low energy neutrino physics, G. Bellini (University and INFN Milano)
Diffuse supernova neutrino background (DSNB), J. Beacom (Ohio State University)
Future underground large detectors: Prospects and physics case, B. Svoboda (UC Davis)
The sources of highest energy cosmic rays and neutrinos, E. Waxman (Weizmann Institute)
Cosmic rays, A. Olinto (University of Chicago)
High-energy neutrino astronomy, T. Montaruli (UW Madison)

Astrophysical messengers FRIDAY

Underground research laboratories and deep mines as a window into subsurface microbiology, B. Sherwood Lollar (University of Toronto)
Gamma-rays: Review of observations, D. Paneque (MPP Munich)
Gamma-rays: Physics interpretation, F. Aharonian (IAS Dublin)
Gravitational waves: Astronomy and astrophysics with gravitational waves in the advanced detector era, A. Weinstein (CalTech)
Gravitational waves: Current and future experimental overview, K. Kuroda (ICRR Tokyo)

Concluding talk FRIDAY

Visions and outlook, H. Murayama (IPMU, Tokyo)

TAUP STEERING COMMITTEE

F. T. Avignone (University of South Carolina), B. C. Barish (CalTech), E. Bellotti (University/INFN Milano), J. Bernabeu (University of Valencia), A. Bottino (University/INFN Torino, chair), N. Fornengo (University/INFN Torino), T. Kajita (ICRR/University of Tokyo), C. W. Kim (Johns Hopkins University & KIAS), V. Matveev (INR Moscow), G. Raffelt (MPP Munich), D. Sinclair (University of Carleton), M. Spiro (CEA Saclay)

ORGANIZING COMMITTEE

N. Fornengo (Torino University & INFN), B. Majorovits (MPP), A. Müller (UC), L. Oberauer (co-chair, TUM), G. Raffelt (co-chair, MPP), S. Rodríguez (MPP), S. Schönert (TUM), D. Sinclair (SNO & Carleton University), R. M. Wagner (MPP), B. Wankler (UC), S. Zollinger (MPP) (MPP: Max-Planck-Institut für Physik, UC: Excellence Cluster Universe, TUM: Technische Universität München)

TAUP 2011 CONFERENCE SECRETARIAT

Max-Planck-Institut für Physik, Föhringer Ring 6, 80805 Munich, Germany
 Phone: +49 (0)89 32354-364 | FAX: +49 (0)89 32354-526 | <http://taup2011.mpp.mpg.de> | taup2011@mpp.mpg.de

